FREDERICK LAW OLMSTED. JOHN CHARLES OLMSTED. CHARLES ELIOT.

OLMSTED, OLMSTED & ELIOT,
LANDSCAPE ARCHITECTS.

EDWARD D. BOLTON,
SUPERINTENDENT OF CONSTRUCTION.

WARREN H. MANNING,
SUPERINTENDENT OF PLANTING.

BROOKLINE, MASS.

July 9, 94

Dear Mr Fernald

I have sent you two packages of plants from Cape Porpoise containing, as I recall them, Lythrum Salicaria. Physostegia virginica. Rhus aromatica. Rhus typhina (Staghorn Sumach) collected up. Kennebunk river by a Mr Haynes. I have not yet found out if it is introduced but presume it is.

I go up next ~~week~~ Saturday & stay two weeks & then will send you other things. Address me here until then Cape Porpoise Me Langsford Hotel. If there is anything more you want to know beyond what the more plant will convey write

Yours truly
Warren H. Manning.

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SUPERINTENDENT OF PLANTING.

BROOKLINE, MASS.

3rd. May, 1894.

Merritt Lyndon Fernald
Cambridge, Mass

Dear Sir:- By direction of Messrs. Olmsted, Olmsted & Eliot, Landscape Architects to the Metropolitan Park Commission, I am collecting the material for a forest survey, flora and fauna of the Blue Hills, Middlesex Fells, Stony Brook and Beaver B rook reservations. You have kindly offered to assist in the preparation of the flora and I am sending with this a set of maps of the above reservations and a permit to collect.

To secure uniformity, brevity and economy of space, abbreviations indicating the fbllowing terms are recommended to be used:-

c. common; f. frequent; o. occasional; r. rare.

It is to be understood that the terms are to have the following meaning when used in referring to plants.

Common (c) having a nearly even distribution over all surfaces of a similar character, within the area specified.

Frequent (f) found frequently in masses or as individual plants but not evenly distributed over surfaces of a similar character within the area specified.

Occasional (o) found only occasionally in different parts of the reservation where the conditions are favorable.

Rare (r) found only in one or a few places within the reservation.

If a plant is commom (c), frequent (f) or occasional (o) through the area referred to, where the conditions are favorable, nothing more than the abbreviation and an indication of the locality will be required.

If it is common in one locality and not in another this should be specified. The locality for rare plants should be specified. (not necessarily for publication).

The maps are marked with 500 foot squares and reference letters and numbers which can be used to locate the position of or the area occupied by a plant approximately if it cannot be indicated briefly by reference to the topographical features.

Usually localities and areas can be indicated by referring to well known features which are indicated on the plan (or which should be added to it), together with the abbreviations for the points of the compass, N. S., E., W., etc. For example, "throughout valley " between certain hills, or along a certain stream, or on the W. slope of a certain hill, etc.

It will be the aim to include in the flora all plants that are now growing, or that are known to have been found growing, within the reservations, including adventives. The history of exterminated and adventive plants with authorities for the same, and a reference to an existing plant in some herbarium should be given if possible.

It desirable that herbarium specimens shall be preserved of all the plants found growing in the reservations, and it is deemed essential that specimens of rare plants or those that run any chance of being exterminated shall be preserved.

Mr. N. T. Kidder of Milton, Mass., has very kindly offered to preserve the identity of specimens from the Blue Hills and Stony Brook reservations, and to care for them in his herbarium, which will ultimately be deposited with some well established society.

Mr. Frank S. Collins of Malden, Mass., who is the custodian of the Middlesex Institute herbarium, on which the Middlesex Flora is based has kindly consented to preserve the identity of species from the Fells and Beaver Brook Reservations and to place them in this herbarium.

The importance and value of the flora which it is proposed to prepare will be recognized when it is understood that it is to be made in connection with a study of the soil and rock formation and geological history of the areas included as well as the forest conditions and the fauna.

In the forest study the distribution, character and condition of the forest trees and the ground cover, and the natural and artificial influences and conditions that are responsible for this distribution and condition are to be considered and from the information thus gained it is to be determined how best to manage the material on the grounds so that Nature will be assisted in the restoration of a permanently good and attractive forest and ground cover.
Any information as to the flora will have a direct bearing upon this study. It should be distinctly the purpose in all these observations and notes on whatever lines directed, to determine as accurately as possible the present condition of and the present life and its distribution on the reservations, and the reasons for this condition and distribution so that a comparison may be made in the years to come to determine how far an intelligent effort to prevent the destruction of Nature's work will have changed the character and present distribution, and added to the life upon these areas, and also

study the directions and the reasons for any such changes that may may take place.

With all this in view it will be desirable that particulars like the following shall be noted in connection with the preparation of the flora. Is a plant increasing or decreasing in numbers ? If so, why ? If a plant known to have been growing in previous years has been exterminated, state year of extermination and cause of same.

How and in what year were adventive or introduced plants brought in ?

Make note of plants found in unnatural conditions as to soil or situation with apparent reason for same.

Do certain plants appear periodically with an interval of more than one year.

Note abnormal forms of any plants and their constancy.

Note year and season of any fires, cuttings or clearings in any part of reservations and the dates when any cultivated or pasture lands were abandoned; also when and where home settlements were made and when they were abandoned, etc. etc.

The value of the proposed flora and fauna of the Metropolitan Park Reservations will be much enhanced if reports, notes and lists pertaining to the various branches are prepared by specialists and if there is at the same time an understanding among the naturalists who assist in the undertaking that specimens and notes pertaining to such special work are to be sent to the individual in charge of it

By such an arrangement the work can be better organized for those assisting will be more likely to concentrate their efforts upon the lines of work that they were best prepared to undertake. They can, at the same time collect and forward specimens and notes per-

taining to the work of the specialists which would not otherwise be collected if they could not be thus definately disposed of to advantage. This would give general collectors an oppertunity to add to their knowledge and they would thus secure credit for the collection of specimens which they would not ordinarily secure, and the specialists would be able to secure more assistance, more material and better results. Such an arrangement would also permit of the separation and publication of such special reports for distribution independently of the Park Commissioner's reports if it was deemed to be adviasble.

There will be sent to all who are to collect specimens and notes the names of those who are willing to undertake such special work, and these specialists will be asked to prepare brief instructions for collecting specimens to guide those who are to assist them.

Before the season is far advanced a meeting of those who are directly connected with the work will be called for reports of progress, for discussion and for exchange of specimens and notes and to arrange for further meetings, if it seems advisable.

I shall be much pleased to receive any suggestions that will facilitate, or in any way improve the work proposed.

It is hoped that it will be possible to bring together enough information within a year to prepare a preliminary list of plants.

Any assistance will be fully appreciated and every effort will be made to so conduct the work and to secure such results that those taking part will secure an adequate return for the time devoted to the work.

Yours truly

Warren H. Manning.

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OLMSTED, OLMSTED & ELIOT,
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EDWARD D. BOLTON,
SUPERINTENDENT OF CONSTRUCTION.

BROOKLINE, MASS.

WARREN H. MANNING,
SUPERINTENDENT OF PLANTING.

24th September, 1894

Mr. Merritt Lyndon Fernald,

Gray Herbarium, Cambridge, Mass.

Dear Sir:- From a note received from the Gray Herbarium some time ago I understand you are expected back about this time, so I am sending you a package of Compositae which I and those with me in the office have collected in the different reservations up to this time. Before very long I shall send you a set of cards upon which to make notes of the plants received and such others as you may have observed in the reservations. As soon as the collecting season closes We shall begin bringing together the material for a preliminary list.

Yours truly,

Warren H Manning.

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BROOKLINE, MASS.

Dec. 29, 1894.

Mr. Meritt Lyndon Fernald,

Gray Herbarium, Cambridge, Mass.

Dear Sir:--I think I have not acknowledged the receipt of a compositae, which came during my absence in the South. I hope you will pardon me for not having done so.

I am beginning to receive notes from the different collectors engaged upon the Metropolitan Flora work, and shall soon begin the preparation of a preliminary list. Can you tell me the best check-list of North American plants? I enclose .25 for which I would like three copies of the Check-List of the Plants of Gray's Manual.

I hope you are well, and have enjoyed your Christmas, and that you will have a happy and prosperous New Year.

Yours very truly,

Warren H. Manning

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BROOKLINE, MASS. May 28th, 1885'

Dr. B. L. Robinson,

Gray's Herbarium, Cambridge, Mass.

Dear Sir;- Mr. M. L. Fernald informs me that you would probably be willing to assist in the preparation of the Metropolitan flora. I had not addressed you before with reference to this work, because I thought that you could hardly spare the time from more important work to give attention to work of this character. I take the liberty of sending you, under separate cover, one of the preliminary lists, which has been recently published, together with a permit for collection within the limits of the Reservation.

If you will allow me, I should like to inform those who are connected with this work that you are ready to join with them in furnishing information to make the final list more complete.

Yours truly,

Warren H. Manning.

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SUPERINTENDENT OF CONSTRUCTION.

WARREN H. MANNING.
SUPERINTENDENT OF PLANTING.

June 6th, 1895.

Dr. B. L. Robinson,

Gray's Herbarium, Cambridge, Mass.

Dear Sir;- Your letter of June 3rd, acknowledging the Metropolitan flora notes and preliminary list, is before me. I am very much obliged to you for your willingness to assist in the work in hand so far as you may be able. Ranunculus Alleghanensis (Britton) is an interesting find. I am very glad it happened to come into our Reservation. I presume that it is the plant that I collected under the largest of the Great Oaks, and took to be R. Arbortivius.

Yours truly,

Warren H. Manning.

June 7th, 1895.

Metropolitan Reservations Flora:

Please meet at the Tower on Bellevue Hill, Stony Brook Reservation at one P. M., June 17th.

The edge of the Reservation is about ten minutes walk (via River and Cleveland Streets) from Hyde Park station on the N. Y., N. H. & H. R. R. Bellevue Hill is about forty minutes walk from the same station and fifteen minutes from Central (Dedham Branch).

It is suggested that those arriving in the A. M. walk up the last side of Reservations.

J. W. Blankenship, 11 Linn St., Cambridge, Mass. has agreed to become responsible for the determination of the Cruciferae.

Dr. B. L. Robinson, Gray Herbarium, Cambridge, Mass.
Miss Cora H. Clark, Jamaica Plains, Mass.
Mr. Herman Schrenk, 8 Garden St., Cambridge, Mass.
have consented to assist in the Reservation Flora work.

Warren H. Manning.
(by H. Custance.)

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METROPOLITAN RESERVATIONS FLORA.

------o------

October 8th 1895.

Will you please send in at an early date any plants that you may have collected for the Metropolitan Reservations Flora so that I may distribute them, when necessary to those who are to be responsible for the determination of the different families. Will you also make your notes in the Preliminary List which you have and return the list as soon as you are able,. so that a compilation may be made for the forthcoming Annual Report of the Metropolitan Commissioners. In making your notes kindly supply omissions and correct errors in the present list.

Yours truly,

Warren H. Manning,
by O.K.

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OLMSTED, OLMSTED & ELIOT,
LANDSCAPE ARCHITECTS,

BROOKLINE, MASS.

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WARREN H. MANNING,
SUPERINTENDENT OF PLANTING.

N

November 21st, 1895.

Mr. Merritt L. Fernald,

Gray's Herbarium, Cambridge, Mass.

Dear Sir;- I am interested to know the names of the weeds that are referred to in your letter of the 14th. If it is worth while to make a record of them in the Botanical Gazette or any other publication, I will give you the data, if you wish to publish it, or I will do it myself if you can not.

Probably Aster infermis in the preliminary list is a mistake. At any rate, it will be omitted from the revised list until it is verfied. I have been away about all the time this Fall, and have not been able to take up the revised list, but I expect to do so very soon now. When I do, you will hear from me.

Yours truly,

Warren H. Manning.

METROPOLITAN RESERVATIONS FLORA.

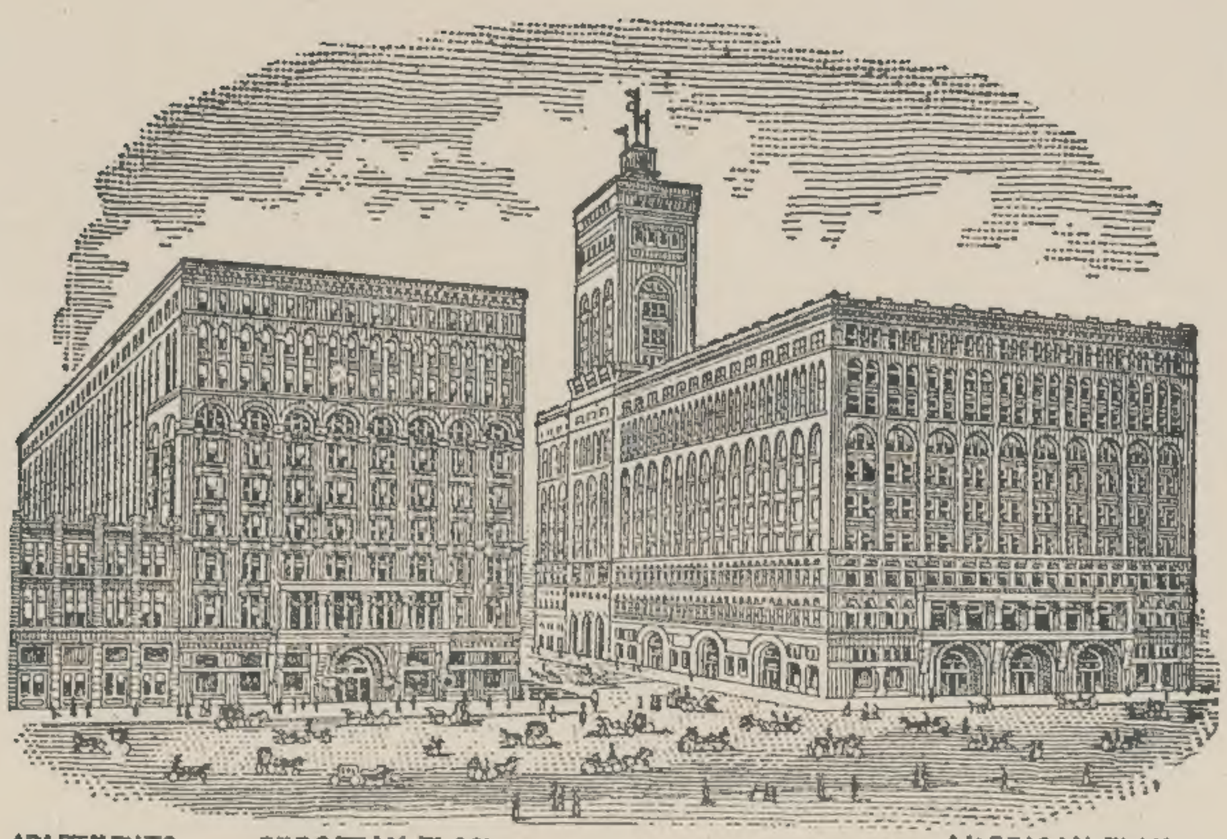
In M. L. Fernald

Brookline, Mass. Dec. 4th. 1895.

Dear Sir;- Mr. Walter Dean will take charge of the preparation of the manuscript for the preliminary list of plants to be found within the limits of the Metropolitan Reservations. It is necessary that this work be completed within a limited time. All specimens and materials are now at Room 20, 125 Tremont St. and you are requested to call there week days between 10 and 1 A.M. and 2 and 5 P.M. before Dec. 14th to look over with Mr. Dean the specimens that you have not already examined in the families assigned to you. Please also return within this time the preliminary list that you now have, with your notes and corrections and specimens from the reservations that you may have. Mr. E. L. Rand will assist Mr. Dean in this work.

Yours truly,

Warren H. Manning.



APARTMENTS. EUROPEAN PLAN. AMERICAN PLAN.

Auditorium Hotel

Breslin & Southgate

R. H. Southgate, Manager.

Chicago. Jan 17 1895

Dear Sir, F.

I send Antennaria, Parlinii I explore which is very c. in woods Lake Forest Ill it appears to be only me. Did not examine dry open land carefully but where I did look this sp. appears Did not examine very carefully for stamineate form only noticed pistillate. Note large size leaves a conspicuous character in all plants. It is with many other species of herbs in woods & thin grass

Yours truly

Warren H. Manning